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Radio Circular No. 15. (Revised)

UNITED STATES DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
Washington

April 15, 1940

CIRCULAR

DISTRIBUTION OF WEATHER INFORMATION, FORECASTS, AND WARNINGS BY RADIO FOR THE BENEFIT OF NAVIGATION ON THE GREAT LAKES

Weather forecasts and information for such States as are contiguous to the Great Lakes, and forecasts and warnings for the Great Lakes, are broadcast by radio from a number of broadcasting stations cooperating with the United States Weather Bureau. The broadcasts of weather forecasts, warnings, and other pertinent information have been arranged so as to be of special benefit to navigation, shipping, and aviation interests of the Great Lakes region, and are made daily, except as noted, from stations at important Lake ports. The daily forecasts of wind and weather are made separately for the upper and lower Lakes, and are broadcast accordingly. In the following schedules central standard time (C. S. T.) or eastern standard time (E. S. T.) is used, as indicated:

RADIO BROADCASTING STATIONS AND SCHEDULES

DULUTH, MINN.

Station WRL. - Radiomarine Corporation of America.
RADIOTELEGRAPH. ACCW; 425 kc.
9 a. m. and 4 p. m., C. S. T.
Pressure, wind, and weather at Duluth, Marquette, and Sault Ste. Marie and wind and weather at Portage and Whitefish Point and wind and weather at Port Arthur; observations taken at 6:30 a. m., C. S. T.
Pressure extremes, locations of "highs" and "lows".
Forecast for Lake Superior.
Storm warnings whenever issued.

Station KDAL. - Red River Broadcasting Co., Inc.
RADIOTELEPHONE. 1,500 kc.
7:30 a. m. C. S. T. (Sundays at 9 a. m.)
Forecast for Duluth-Superior and vicinity; wind, minimum temperature, and precipitation at Duluth.
Storm warnings whenever issued.
10:45 a. m. C. S. T.
Forecast for Duluth-Superior and vicinity, Minnesota, and Wisconsin; wind and temperature at Duluth.
Forecast for Lake Superior.

Station WAS. - Lorain County (Ohio) Radio Corporation.
RADIOTELEPHONE. 2,550 kc.
9:30 a. m., C. S. T.
Pressure, wind and weather at Duluth, Marquette and Sault Ste. Marie and wind and weather at Portage and Whitefish Point; observations taken at 6:30 a. m., C. S. T.
Pressure extremes, locations of "highs" and "lows".
Forecast for Lake Superior.
Storm warnings whenever issued.

DULUTH, MINN. - Continued.

8 p. m. and 12 midnight, C. S. T.
Forecast for Duluth-Superior and vicinity; wind, maximum temperature, and precipitation at Duluth.
Storm warnings whenever issued.

Station WEBC. - Head of the Lakes Broadcasting Co. (Superior, Wis.)
RADIOTELEPHONE. 1,290 kc.
6:28 a. m., C. S. T. (Sundays at 7:59 a. m.)
Current temperature.
7 a. m. and 7:30 a. m., C. S. T. (Except Sundays)
Forecast for Duluth-Superior and vicinity; current temperature and wind.
9:20 a. m., 12:30 p. m., 5 p. m., 5:30 p. m., 10 p. m., and 12 midnight, C. S. T.
Forecast for Duluth-Superior and vicinity; current temperature and wind.
Forecast for Lake Superior.
Lake reports. (At 9:20 a. m. only).
Storm warnings whenever issued.

CALUMET, MICH.

Station WHDF. - Upper Michigan Broadcasting Co. (Laurium, Mich.)
RADIOTELEPHONE. 1,370 kc.
12 noon and 5 p. m., E. S. T.
Forecast for Lake Superior during season of navigation, and forecasts for Upper Michigan and winds for Lake Superior during closed season.
Storm warnings whenever issued.

MARQUETTE, MICH.

Station WDMJ. - The Lake Superior Broadcasting Co.
RADIOTELEPHONE. 1,310 kc.
7:15 a. m. to 7:30 a. m., E. S. T., September 29 to April 28.
6:15 a. m. to 6:30 a. m., E. S. T., April 29 to September 28.
Forecast for Upper Michigan and Wisconsin.
Forecast for Lake Superior (Navigation season only).
11 a. m. and 1:35 p. m., E. S. T., September 29 to April 28, inclusive; and 10 a. m. and 12:35 p. m., E. S. T., April 29 to September 28, inclusive, daily.
Forecasts for Marquette and vicinity and Upper Michigan.
Forecast for Lake Superior.
Storm warnings whenever issued.
Warnings of heavy snows and strong winds during winter months.

Station NNES. - U. S. Coast Guard.
RADIOTELEPHONE. 2,572 kc.
11:10 a. m. and 11:10 p. m., E. S. T.
Forecast for the Upper Lakes.
Storm warnings whenever issued.
U. S. Coast Guard Notices to Mariners.
U. S. Navy Hydrographic Information.

SAULT STE. MARIE, MICH.

Station NNFD. - U. S. Coast Guard.
RADIOTELEPHONE. 2,572 kc.
10:20 a. m. and 10:20 p. m., E. S. T.
Forecast for the Upper Lakes.
Storm warnings whenever issued.
U. S. Coast Guard Notices to Mariners.
U. S. Navy Hydrographic Information.

SAULT STE. MARIE, MICH. - Continued.

Station CJIC. - Hyland Broadcasting Co. (Sault Ste. Marie, Ontario, Canada.)
RADIOTELEPHONE. 1,500 kc.
12:35 p. m., E. S. T. During season of navigation.
Forecast for the Upper Lakes.
Storm warnings whenever issued.
Ships' weather reports.
U. S. Coast Guard Notices to Mariners.
U. S. Navy Hydrographic Information.
6 p. m. and 7:30 p. m., E. S. T. (Except Sundays and Holidays.)
Forecasts for Sault Ste. Marie and vicinity and Upper Michigan.

OLD MACKINAC POINT, MACKINAW CITY, MICH.

Station NNFA. - U. S. Coast Guard.
RADIOTELEPHONE. 2,572 kc.
11:50 a. m. and 11:50 p. m., E. S. T.
Forecasts for Upper Lakes.
Storm warnings whenever issued.
U. S. Coast Guard Notices to Mariners.
U. S. Navy Hydrographic Information.

SHERWOOD POINT, WIS.

Station NNFQ. - U. S. Coast Guard.
RADIOTELEPHONE. 2,572 kc.
10:20 a. m. and 10:20 p. m., C. S. T.
Forecast for Lake Michigan.
Storm warnings whenever issued.
U. S. Coast Guard Notices to Mariners.
U. S. Navy Hydrographic Information.

GREEN BAY, WIS.

Station WTAQ. - WHBY, Inc. (West De Pere, Wis.)
RADIOTELEPHONE. 1,330 kc.
Every hour on the hour from 7 a. m. to 9:00 p. m., C. S. T. (Except Sundays and Holidays.)
Current temperature for Green Bay and forecast for Wisconsin.
9:00 a. m., 12:15 p. m., and 6:44 p. m., C. S. T. (Except Sundays and holidays.)
Forecast for Green Bay.
Forecast for Wisconsin and Upper Michigan.
Forecast for Lake Michigan.
Storm warnings whenever issued.

MILWAUKEE, WIS.

Station WISN. - Hearst Radio, Inc.
RADIOTELEPHONE. 1,120 kc.
10:00 a. m., C. S. T.
Forecast for Milwaukee and vicinity; pressure, wind, and current temperature at Milwaukee.
Forecast for Lake Michigan.
Storm warnings whenever issued.
11:00 p. m., C. S. T.
Forecast for Milwaukee and vicinity; pressure, wind, and temperature at Milwaukee.
Forecast for Lake Michigan.
Storm warnings whenever issued.

MILWAUKEE, WIS. - Continued.

Station NNEV. - U. S. Coast Guard.
RADIOTELEPHONE. 2,572 kc.
9:40 a. m. and 9:40 p. m., C. S. T.
Forecast for Milwaukee and vicinity.
Forecast for Lake Michigan.
Storm warnings whenever issued.
U. S. Coast Guard Notices to Mariners.
U. S. Navy Hydrographic Information.

Station WTMJ. - The Journal Co. (Milwaukee Journal). (Brookfield, Wis.)
RADIOTELEPHONE. 620 kc.
7:30 a. m., 8:25 a. m., and 6:25 p. m., C. S. T. (Except Sunday)
Forecasts for Milwaukee and vicinity, temperature at Milwaukee.
Forecast for Wisconsin.
11:45 a. m., C. S. T. (Except Sundays.)
Pressure, wind, and weather at Alpena, Chicago, Duluth, Escanaba, Frankfort, Milwaukee, and Sault Ste. Marie, and wind and weather at Mackinaw; observations taken at 6:30 a. m., C. S. T.
Current temperature for Milwaukee.
1:06 p. m., C. S. T. (Except Sundays.)
Forecast for Milwaukee and vicinity, Wisconsin, Illinois, Lake Michigan; weather and temperature data for Milwaukee.
10:15 p. m., C. S. T.
Forecast for Wisconsin and Milwaukee and vicinity.
Forecast for Lake Michigan.
Temperature, wind, and pressure at Milwaukee (9:00 p. m. data).

Station WEMP. - Milwaukee Broadcasting Co.
RADIOTELEPHONE. 1,310 kc.
Intermittently during the day (beginning at 6:30 a. m., C. S. T.).
Forecast for Milwaukee and vicinity.

CHICAGO, ILL.

Station WAAF. - Drovers Journal Publishing Co.
RADIOTELEPHONE 920 kc.
Between 6:00 a. m. and 7:00 a. m. and between 2:30 p. m. and 2:45 p. m., C. S. T.,* as time permits.
Forecast for Chicago and vicinity.

Station WBBM. - Columbia Broadcasting System, Inc. (Glenview, Ill.)
RADIOTELEPHONE. 770 kc.
1:00 a. m. and between 6:30 a. m. and 7:00 a. m., and at 8:30 a. m., C. S. T.*, Monday to Saturday, inclusive.
Forecast for Chicago and vicinity.
Storm warnings whenever issued.

Station WCFL. - Chicago Federation of Labor. (York Township.)
RADIOTELEPHONE. 970 kc.
Between 6:30 a. m. and 7:00 a. m.; 11:30 a. m. and 11:35 a. m.; 12 noon and 12:15 p. m.; 2:00 p. m. and 2:15 p. m.; 5:00 p. m. and 5:15 p. m.; 7:00 p. m. and 7:15 p. m.; and between 9:00 p. m. and 9:15 p. m., C. S. T.* (Except Sundays.)
Forecasts for Chicago and vicinity, Illinois, Indiana, and Wisconsin.
Forecasts for the Upper and Lower Lakes.
Storm warnings whenever issued.

Station WGN. - WGN, Inc. (Schaumberg, Ill.)
RADIOTELEPHONE. 720 kc.

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* One hour earlier during period of "Daylight Saving Time", April 30 to September 24.

CHICAGO, ILL. - Continued.

11:15 a. m., 3:00 p. m., 8:30 p. m., and 11:00 p. m., C. S. T. *
Forecast for Chicago and vicinity.
Storm warnings whenever issued.

Station WGO. - Radiomarine Corporation of America.
RADIOTELEGRAPH. CW; 425 kc.
9:30 a. m., C. S. T.*
Pressure, wind, and weather at Chicago, Milwaukee, Frankfort, Escanaba, and Sault Ste. Marie; and wind and weather at Whitefish Point, and Mackinaw; observations taken at 6:30 a. m., C. S. T.
Forecast for Chicago and vicinity.
Forecasts for the Upper and Lower Lakes.
Storm and small craft warnings whenever issued.

Station WIND. - Johnson, Kennedy, Inc.
RADIOTELEPHONE. 560 kc.
10:00 a. m. to 10:05 a. m. Monday to Saturday, inclusive. (By remote control direct from Weather Bureau Office.)
Synopsis of general weather conditions.
Forecasts for Chicago and vicinity, Illinois, Indiana, Lower Michigan, Upper Michigan, Wisconsin, Missouri, Iowa, Minnesota, North Dakota, South Dakota, Nebraska, Kansas, and Ohio.
Forecasts for Upper and Lower Lakes.
Storm warnings whenever issued.

Station WMBI. - Moody Bible Institute.
RADIOTELEPHONE. 1,080 kc.
6:00 a. m. to 7:00 a. m. - Monday to Saturday, inclusive. C. S. T.
Forecasts for Chicago and vicinity, Illinois, Indiana, Lower Michigan, Upper Michigan, Wisconsin, Missouri, Iowa, Minnesota, North Dakota, South Dakota, and Nebraska.
Forecasts for Upper and Lower Lakes.
Storm warnings whenever issued.

Station WLS. - Agricultural Broadcasting Co. (Tinley Park, Ill.)
RADIOTELEPHONE. 870 kc.
6:15 a. m. and 11:45 a. m., C. S. T. *. (Except Sundays.)
Forecasts for Chicago and vicinity, Illinois, Indiana, Wisconsin, Upper Michigan, Lower Michigan, Missouri, and Iowa.
Forecasts for the Upper and Lower Lakes.
Storm warnings whenever issued.

Station WJJD. - WJJD, Inc. (Des Plains, Ill.)
RADIOTELEPHONE. 1,130 kc.
6:15 to 6:20 a. m., and at 7:25 a. m., 1:20 p. m., and 2:14 p. m. (By remote control direct from Weather Bureau Office.) C. S. T.
Synopsis of general weather conditions.
Forecasts for Chicago and vicinity, Illinois, Indiana, Michigan, Wisconsin, Missouri, Iowa, Minnesota, North Dakota, South Dakota, and Nebraska.
Storm warnings whenever issued.

ROGERS CITY, MICH.

Station WLC. - Central Radio Telegraph Co.
RADIOTELEGRAPH. CW; 454 kc.

Station WLF. - Central Radio Telegraph Co.
RADIOTELEGRAPH. CW; 6,380 kc. 10:00 a. m.; 4,780 kc. 10:00 p. m.
10:00 a. m., E. S. T.

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* One hour earlier during period of "Daylight Saving Time", April 30 to September 24.

ROGERS CITY, MICH. - Continued.

State of weather, wind direction and velocity, and pressure at Chicago, Green Bay, Frankfort, Duluth, Marquette, Sault Ste. Marie, Alpena, Harbor Beach, Detroit, Cleveland, and Buffalo; wind and weather at Portage Canal, Port Arthur, Parry Sound, Whitefish Point, Mackinaw, Thunder Bay Island, and Tawas Point; observations taken at 7:30 a. m., E. S. T.
10:00 a. m. and 10:00 p. m., E. S. T.
Forecasts for the Upper and Lower Lakes.
Storm and advisory warnings whenever issued.

ALPENA, MICH.

Station WNO. - Michigan Wireless Telegraph Co.
RADIOTELEGRAPH. CW; 454 kc.
9:20 a. m., E. S. T.
State of weather, wind direction and velocity, and pressure at Chicago, Green Bay, Frankfort, Duluth, Marquette, Sault Ste. Marie, Alpena, Harbor Beach, Detroit, Cleveland, and Buffalo; wind and weather at Portage Canal, Port Arthur, Parry Sound, Whitefish Point, Mackinaw, Thunder Bay Island, and Tawas Point; observations taken at 7:30 a. m., E. S. T.
10:20 a. m., E. S. T.
Forecasts for the Upper and Lower Lakes.
Storm and advisory warnings whenever issued.

DETROIT, MICH.

Station WXYZ. - King-Trendle Broadcasting Corporation.
RADIOTELEPHONE. 1,240 kc.
On all news broadcasts and intermittently during the day and evening. *
Forecasts for Detroit and vicinity and Lower Michigan.
12:15 p. m., E. S. T., Monday to Friday, inclusive and at 6:00 p. m., E. S. T. (Except Sundays.) *
Forecast for Upper Michigan.
12:15 p. m., E. S. T., Monday through Friday. *
Shippers' forecasts (during the winter season only).
Storm warnings whenever issued.

Station WJR.-WJR, The Goodwill Station. (Wyandotte, Mich.)
RADIOTELEPHONE. 750 kc.
6:00 a. m., 7:00 a. m., 8:00 a. m., 3:30 p. m., 6:00 p. m. and 11:15 p. m., E. S. T. (Except Sundays.) *
8:00 a. m., 10:15 a. m., 1:15 p. m., and 11:15 p. m., E. S. T. on Sundays. *
Forecasts for Detroit and vicinity, Lower Michigan, Upper Michigan, Indiana, Ohio and (shippers' forecasts during winter season only).
Forecasts for Upper Lakes and Lower Lakes.
Storm warnings whenever issued.
Local data.
Shippers' forecasts during winter season.
Storm warnings whenever issued.

Station WMBC. - Michigan Broadcasting Co.
RADIOTELEPHONE. 1,420 kc.
11:00 a. m., E. S. T. (Except Sunday)
Forecasts for Detroit and vicinity and Lower Michigan.
Local data and synopsis of weather conditions.

Station WWJ. - The Evening News Association. (Oak Park, Mich.)
RADIOTELEPHONE. 920 kc.

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* One hour earlier during period of "Daylight Saving Time", April 30, to September 24.

DETROIT, MICH. - Continued.

7:45 a. m. and 12:30 p. m., E. S. T. (except Sundays), and at 11:00 p. m. (except Saturdays).
Forecasts for Detroit and vicinity, Lower Michigan, Upper Michigan, Indiana, and Ohio.
Shippers' forecasts (winter season only).
Forecasts for Upper and Lower Lakes.
Storm warnings whenever issued.
Summary of weather conditions.

Station WCV. - Michigan Wireless Telegraph Co. (Wyandotte, Mich.)
RADIOTELEGRAPH. CW; 425 kc.
10:20 a. m., E. S. T.
Forecasts for the Upper and Lower Lakes.
Storm warnings whenever issued.

Station W8XWJ. - Evening News Association.
RADIOTELEPHONE. 42,060 kc.
10:15 a. m., 11:15 a. m., 1:15 p. m., and 2:30 p. m., E. S. T.
Forecasts for Detroit and vicinity, Lower Michigan, Upper Michigan, Indiana, and Ohio.
Forecasts for Upper and Lower Lakes.

Station CKLW. - Western Ontario Broadcasting Company, Ltd. (Windsor, Ontario, Canada)
RADIOTELEPHONE. 1,030 kc.
12 noon, 3:00 p. m., 7:00 p. m., and 11:00 p. m., E. S. T.
Forecasts for Detroit and vicinity, Lower Michigan, Upper Michigan, Indiana, and Ohio.
Shippers' forecasts (during winter season only).
Forecasts for the Upper and Lower Lakes.
Storm warnings whenever issued.
Local data and synopsis of general weather conditions.

TOLEDO, OHIO.

Station WSPD. - The Fort Industry Co. (Perrysburg, Ohio).
RADIOTELEPHONE. 1,340 kc.
12:45 p. m. and 5:00 p. m., E. S. T. (Monday to Friday, inc.).
Forecast for Toledo and vicinity. +
Forecast for Lower Lakes.
6:58 a. m., 7:15 a. m., and 11:45 p. m., E. S. T. (Monday to Friday, inc.).
Forecast for Ohio.
12:15 p. m. and 6:15 p. m., E. S. T. (Saturday).
Forecast for Toledo and vicinity. +
Forecast for Lower Lakes.
6:58 a. m., 7:30 a. m., and 11:30 p. m., E. S. T. (Saturday).
Forecast for Ohio.
8:00 a. m., 12:15 p. m., 5:00 p. m., and 11:30 p. m., E. S. T. (Sunday).
Forecast for Ohio.
12:15 p. m. and 5:00 p. m., E. S. T. (Sunday).
Forecast for Lower Lakes.
Storm warnings whenever issued.

Station WTOL. - The Community Broadcasting Co.
RADIOTELEPHONE. 1,200 kc.
12 noon and 6:00 p. m., E. S. T. (Except Sundays.)
Forecast for Toledo and vicinity. +
7:30 a. m., 8:00 a. m., and 10:00 p. m., E. S. T. (Except Sundays.)
Forecast for Ohio.

+ Forecast for Ohio on holidays instead of Toledo and vicinity.

TOLEDO, OHIO. - Continued.

9:00 a. m., 12 noon, 6:00 p. m., and 10:00 p. m., E. S. T. (Sundays.)
Forecast for Ohio.

CLEVELAND, OHIO.

Station WCY. - Radiomarine Corporation of America. (West Dover, Ohio.)
RADIOTELEGRAPH. ACCW; 425 kc.
12 noon and 10:30 p. m., E. S. T.
Pressure, wind, and weather at Cleveland, Toledo, Erie, Buffalo, and Detroit; observations taken at 7:30 a. m. and 7:30 p. m., E. S. T.
Pressure, wind, and weather at Alpena, Escanaba, Frankfort, Chicago, Milwaukee, Sault Ste. Marie, Marquette, Duluth, and Harbor Beach; and wind and weather at Portage, Whitefish Point, Parry Sound, Port Arthur, and Mackinaw, 12 noon broadcast only; observations taken at 7:30 a. m., E. S. T.
Forecasts for the Lower and Upper Lakes.
Locations of "highs" and "lows".
Storm and advisory warnings for the Great Lakes whenever issued.

Station WMI. - Lorain County Radio Corporation. (Lorain, Ohio.)
RADIOTELEPHONE. 2,550 kc., 6,470 kc., 8,585 kc., and 11,370 kc.
11:00 a. m. and 10:00 p. m., E. S. T.
Pressure, wind and weather at Buffalo, Erie, Cleveland, Toledo, Detroit, Alpena, Chicago, Milwaukee, Sault Ste. Marie, Marquette, and Duluth; and wind and weather at Port Arthur; observations taken at 7:30 a. m., E. S. T.
Pressure, wind, and weather at Harbor Beach, Frankfort, and Escanaba; and wind and weather at Portage; White Fish Point, Thunder Bay Island, Parry Sound, and Mackinaw; 11:00 a. m. broadcast only; observations taken at 7:30 a. m., E. S. T.
Forecasts for the Lower and Upper Lakes.
Locations of "highs" and "lows".
Storm and advisory warnings whenever issued.

Station NMD. - U. S. Coast Guard.
RADIOTELEPHONE. 2,572 kc.
10:50 a. m. and 10:50 p. m., E. S. T.
Pressure, wind, and weather at Buffalo, Erie, Cleveland, Toledo, Detroit, Alpena, Chicago, Milwaukee, Sault Ste. Marie, Marquette, and Duluth; and wind and weather at Port Arthur; observations taken at 7:30 a. m. and 7:30 p. m., E. S. T.
Pressure, wind, and weather at Frankfort, and Escanaba, and wind and weather at Parry Sound: 10:50 a. m. broadcast only; observations taken at 7:30 a. m., E. S. T.
Forecasts for the Lower and Upper Lakes.
Locations of "highs" and "lows".
Storm warnings whenever issued (broadcast at 12:50 a. m., 4:50 a. m., 6:50 a. m., 8:50 a. m., 10:50 a. m., 12:50 p. m., 2:50 p. m., 4:50 p. m., 6:50 p. m., 8:50 p. m., and 10:50 p. m., E. S. T.) Storm warnings are broadcast at the next scheduled time, following receipt and every 2 hours thereafter for a period of 10 hours unless superseded or canceled.
U. S. Coast Guard Notices to Mariners.
U. S. Navy Hydrographic Information.

BUFFALO, N. Y.

Station WBL. - Radiomarine Corporation of America.
RADIOTELEGRAPH. CW; 425 kc.
10:00 a. m., E. S. T.
Pressure, wind, and weather at Buffalo, Oswego, Erie, Cleveland, Toledo, Detroit, Chicago, Duluth, Sault Ste. Marie, Alpena, and wind and weather at Toronto and Parry Sound; observations taken at 7:30 a. m., E. S. T.
Forecast for the Lower Lakes.

BUFFALO, N. Y. - Continued.

Locations of "highs" and "lows".
Storm warnings whenever issued.

Station WGR. - Buffalo Broadcasting Corporation. (Tonowanda, N. Y.)
RADIOTELEPHONE. 550 kc.
8:00 a. m., 9:30 a. m., 12:30 p. m., 5:40 . m., 6:00 p. m., and 11:00 p. m., E. S. T. *
Forecasts for Buffalo and western New York.
Forecast for the Lower Lakes.
Storm warnings whenever issued.

Station WBEN.-WBEN, Inc. (Martinsville, N. Y.)
RADIOTELEPHONE. 900 kc.
7:15 a. m., 7:45 a. m., 9:07 a. m., 12:37 p m., 6:08 p. m., and 11:19 p. m., E. S. T. *
Forecasts for Buffalo and western New York.
Forecast for the Lower Lakes.
Storm warnings whenever issued.

Station WKBW. - Buffalo Broadcasting Corporation. (Amherst Township.)
RADIOTELEPHONE. 1,480 kc.
8:00 a. m., 11:59 a. m., 5:20 p. m., and 11:00 p. m., E. S. T. *
Forecasts for Buffalo and western New York.
Forecast for the Lower Lakes.
Storm warnings whenever issued.

Station WEBR.-WEBR, Inc. (Larkin Terminal Building.)
RADIOTELEPHONE. 1,310 kc.
8:35 a. m., 12:40 p. m., 4:05 p. m., 6:40 p. m., and 10:40 p. m., E. S. T. *
Forecasts for Buffalo and western New York.
Forecast for the Lower Lakes.
Storm warnings whenever issued.

ROCHESTER, N. Y.

Station WHAM. - Stromberg-Carlson Telephone Manufacturing Co. (Victor Township.)
RADIOTELEPHONE. 1,150 kc.
12:15 p. m. and 6:10 p. m., E. S. T. (Except Sundays.) *
Forecast for Rochester and vicinity.
Forecast for the Lower Lakes.
Storm warnings whenever issued.

Station WHEC.-WHEC, Inc.
RADIOTELEPHONE. 1,430 kc.
12:15 p. m., 4:00 p. m., and 11:00 p. m., E. S. T. (Except Sundays and holidays.) *
Forecast for Rochester and vicinity.
Forecast for the Lower Lakes.
Storm warnings whenever issued.

PITTSBURGH, PA.

Station KDKA. - Westinghouse Electric and Mfg. Co. (Allison Park, Pa.)
RADIOTELEPHONE. 980 kc.
Between 6:10 p. m. and 6:15 p. m., E. S. T. *
Forecasts for western Pennsylvania, Ohio, and West Virginia.
8:30 a. m., E. S. T.
Forecast for Western Pennsylvania.
12:13 p. m. and between 11:10 and 11:15 p. m., E. S. T.
Forecasts for western Pennsylvania, Ohio, and West Virginia.

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* One hour earlier during period of "Daylight Saving Time", April 30 to September 24.

PITTSBURGH, PA. - Continued.

Daily river stages at 12:15 p. m. only.
Storm warnings for the Great Lakes whenever issued.

Station WCAE.-WCAE, Inc. (Baldwin Township.)
RADIOTELEPHONE. 1,220 kc.
6:00 p. m., E. S. T. * (Except Sundays and holidays.)
River stages and temperature.
1:30 a. m., 6:45 a. m., and 7:00 a. m., E. S. T. * (Sundays at 1:00 a. m. only)
Forecasts for western Pennsylvania, Ohio, and West Virginia.
7:15 a. m., 7:30 a. m., 7:45 a. m., and 8:00 a. m., E. S. T. (Except Sundays.)
Forecast for Western Pennsylvania.

Broadcasts are made throughout the year from the following radio stations: KDAL, WEBC, CJIC, WDMJ, WHDF, WTAQ, WISN, WTMJ, WEMP, WWCX, WAAF, WBBM, WCFL, WGN, WIND, WLS, WJJD, WMBI, WXYZ, WJR, WMBC, WWJ, W8XWJ, CKLW, WSPD, WTOL WTAM, WGR, WBEN, WKBW, WEBR, WHAM, WHEC, KDKA, and WCAE.

Storm warnings, weather conditions at certain indicated Lake points, and the forecasts for the upper and lower Lakes are broadcast only during the season of navigation.

F. W. Reichelderfer

CHIEF OF BUREAU.

This edition supersedes all other editions of this circular. Additional copies of this circular may be procured on application to any Weather Bureau Office at Great Lakes Ports or to Chief of Weather Bureau, Washington, D. C.

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* One hour earlier during period of "Daylight Saving Time", April 30 to September 24.